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Attorney Docket No. FM-10-US

Serial No.: 10/517,904

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Jianhua Feng et al.

Examiner: Sheridan R. Macauley

Serial No.: 10/517,904

Group Art Unit: 1651

Confirmation No: 4693

Filed: December 10, 2004

Docket No.: FM-10-US

Title: PURIFIED PKB SER 473 KINASE AND USES THEREOF

PROPOSED DRAFT AMENDMENTS FOR ALLOWANCE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Madam:

This response is provided in response to the Final Office Action mailed December 30, 2009. Applicants respond as follows:

Amendment to the Claims begin on page 2.

Remarks begin on page 6.

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AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1. (Cancel) A cell-free composition comprising a complex which has PKB Ser 473 kinase activity and an apparent molecular weight of 450-650 kDa.

Claim 2. (Cancelled)

Claim 3. (Cancel) The cell-free composition of claim 1, wherein said complex comprises a protein having a molecular weight of 48kDa as estimated by SDS gel electrophoresis.

Claim 4. (Cancel) The cell-free composition of claim 1, wherein said complex comprises a protein having a molecular weight of 58kDa as estimated by SDS gel electrophoresis.

Claim 5. (Currently amended) A purified PKB Ser 473 kinase ~~protein~~ complex, which has PKB Ser 473 kinase activity and an apparent molecular weight of 450-650 kDa when fractionated by gel filtration chromatography, wherein the purified PKB Ser 473 kinase complex has been purified from a cell-free extract that has measurable PKB Ser 473 kinase activity in 0.2 µg of protein when detected in a kinase assay in which a PKB peptide substrate is phosphorylated with ³²P labeled phosphate, wherein the purified PKB Ser 473 kinase complex elutes with an apparent molecular weight of 450-650 kDa when fractionated by gel filtration chromatography and the measurable PKB Ser 473 kinase activity in the cell-free extract is at least 2000 times greater than a PKB Ser 473 kinase activity in a crude cell extract, wherein the kinase activities are measured using the kinase assay.

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Claim 6. (Cancelled)

Claim 7. (Currently amended) A purified cell extract that has measurable PKB Ser 473 kinase activity in 0.2 μ g of protein when detected in a kinase assay in which a PKB peptide substrate is phosphorylated with 32 P label[[~~l~~]]ed phosphate, wherein ~~[[the]]~~ a kinase complex elutes with an apparent molecular weight of 450-650 kDa when fractionated by gel filtration chromatography and the measurable PKB Ser 473 kinase activity in the purified cell extract is at least 2000 times greater than ~~a specific activity of a~~ PKB Ser 473 kinase activity in a crude cell extract, wherein the kinase activities are measured using the kinase assay.

Claim 8. (Currently amended) The purified cell extract of claim 7, wherein the kinase complex elutes with an apparent molecular weight of 550 kDa when fractionated by gel filtration chromatography.

Claim 9. (Cancelled)

Claim 10. (Withdrawn) A method for producing antibodies which selectively bind to a purified PKB Ser 473 kinase protein comprising the steps of:

- i) administering an immunogenically effective amount of a PKB Ser 473 kinase immunogen to an animal;
- ii) allowing the animal to produce antibodies to the immunogen; and
- iii) obtaining the antibodies from the animal or from a cell culture derived therefrom.

Claim 11. (Withdrawn) A PKB Ser 473 kinase-specific antibody.

Claim 12. (Withdrawn) A method of screening for a potential modulator of PKB Ser 473 kinase activity comprising the steps of:

- i) incubating the purified PKB Ser 473 kinase protein of claims 5 or 6 with a compound;

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Hoxie & Associates LLC

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FAX COVER SHEET

Date: 3/23
To: Sheridan Macauley Macauley
Fax Number: 1-571-273-8300
From: Jay Pattumudi
Re:

Message: Proposed drt & amendments

for 10/517, 904

FM-10

Conf: No. 4693

Total pages sent (including cover sheet):

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Art Unit 1651

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I amended claim 5 to
include limitations of
claim 7. also

corrected for
minor typos, such as

~~claim 6~~ labelled.

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